DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES Office of Structural Materials

Quality Assurance and Source Inspection

Bay Area Branch 690 Walnut Ave.St. 150 Vallejo, CA 94592-1133 (707) 649-5453 (707) 649-5493



Contract #: 04-0120F4

Cty: SF/ALA Rte: 80 PM: 13.2/13.9

File #: 82.28

WELDING INSPECTION REPORT

Resident Engineer: Siegenthaler, Peter **Report No:** WIR-024066 Address: 333 Burma Road **Date Inspected:** 19-May-2011

City: Oakland, CA 94607

OSM Arrival Time: 630 **Project Name:** SAS Superstructure Prime Contractor: American Bridge/Fluor Enterprises, a JV **OSM Departure Time:** 1500

Contractor: Westmont Industries **Location:** Santa Fe Springs, CA

Ruben Dominguez **CWI Name: CWI Present:** Yes No **Inspected CWI report:** Yes N/A **Rod Oven in Use:** Yes No No N/A N/A N/A **Electrode to specification:** Yes No **Weld Procedures Followed:** Yes No N/A **Qualified Welders:** Yes No **Verified Joint Fit-up:** Yes No N/A N/A Yes N/A **Approved Drawings:** Yes No **Approved WPS:** No Yes No N/A **Delayed / Cancelled:**

Bridge No: 34-0006 L & R **Component:** Maintenance Travelers

Summary of Items Observed:

On this date, Caltrans Quality Assurance Inspector (QA) Sherri Brannon is present at the Westmont Industries (WMI) jobsite in Santa Fe Springs, California for the purpose of observing fabrication and QC functions for the SAS Superstructure, Bid Item #99, Maintenance Traveler and Bid Item #100, Maintenance Traveler (Bike Path).

SAS-WB Traveler – Lower Truss Frame Assembly

Welding Completed on the SAS-WB Traveler – Lower Truss Frame Assembly on Thursday 5-12-11. Quality Control Mr. Dominguez informed QA Inspector that Smith Emery did complete visual inspection and waiting on WMI to weld and grind on some area's found by visual inspection this date.

E2/E3 Bike Path Traveler

This QA Inspector randomly observed WMI production personnel Mr. Larry Swanson ID#3058, performing layout, fitting and tack welding activities at various locations for the E2/E3 Bike Path Traveler Assemblies. This QA Inspector observed Mr. Swanson performing the FCAW in all positions randomly throughout the shift.

E2/E3-WB Traveler

This QA Inspector randomly observed WMI production personnel Mr. Richard Fuentes WID #3201 and one helper, performing layout, fitting and tack welding activities at various locations for the E2/E3-WB Traveler Assemblies. This QA Inspector observed Mr. Fuentes performing the FCAW in all positions randomly throughout the shift.

This QA Inspector observed WMI production welder Mr. Daniel Grayum (WID # 3049) continuing to perform

WELDING INSPECTION REPORT

(Continued Page 2 of 3)

Flux Core Arc Welding (FCAW) activities on the E2/E3-WB Traveler Assemblies. This QA Inspector observed Mr. Grayum performing the FCAW in all positions randomly throughout the shift.

SAS-WB Traveler - Fixed Stair Section

This QA Inspector randomly observed WMI production personnel Mr. Cesar Canales WID #3195 and helper Mr. Jesus Rayas WID#3197, performing layout, fitting and tack welding activities at various locations for the SAS-WB Traveler Fixed Stair Section Assemblies. This QA Inspector observed Mr. Canales performing the FCAW in all positions randomly throughout the shift.

This QA Inspector observed WMI production welder Mr. Charles Newton (WID # 3200) continuing to perform Flux Core Arc Welding (FCAW) activities on the SAS-WB Traveler Fixed Stair Section Assemblies. This QA Inspector observed Mr. Newton performing the FCAW in all positions randomly throughout the shift.

This QA Inspector randomly observed WMI production welder Mr. Eutimo Lopez (WID # 3035) continuing to perform Flux Core Arc Welding (FCAW) activities on the SAS-WB Traveler Fixed Stair Section Assemblies. This QA Inspector observed Mr. Lopez performing the FCAW in all positions on tube steel and plate material, randomly throughout the am shift.

Traveler Test Rack

This QA Inspector observed no WMI production personnel performing fitting, welding or cutting activities on assemblies for the Traveler Test Rack.

This QA Inspector randomly observed that Smith Emery, CWI, QC Inspector Mr. Ruben Dominguez was present, during the above mentioned welding and fitting activities. During random observation, this QA Inspector observed that the applicable WPS's and copies of the shop drawings, appeared to be located near each work station, where the above mentioned welding and fitting activities were being performed. This QA Inspector randomly verified that the consumable material, utilized during the welding appeared to be in compliance with the applicable WPS and that the above mentioned welders were currently qualified for the applicable process and position of welding. This QA Inspector randomly observed QC Inspector Dominguez verifying the in-process welding parameters, including voltage, amperage, pre-heat and travel speed and the parameters appeared to be in compliance to the applicable WPS.

This QA Inspector observed that the activities mentioned above, appeared to be in compliance with the contract requirements and this QA Inspector observed no non-conforming issues, on this date.

RPI Coating (Blast and Prime Coat)

This QA Inspector randomly observed that RPI personnel performing sweep blasting activities on the Trolley links and Suspension Arms for the traveler assemblies. After the sweep blast was complete QA Inspector then observed RPI Coating Quality Control (QC) Representative Mr. Andrew Gonzales performing what appeared to be random surface profile checks on the sweep blasted base metal surfaces. This QA Inspector observed Mr. Gonzales utilizing what appeared to be Testex Press-O-Film and a micrometer to perform the testing. Initially, this QA Inspector observed Mr. Gonzales applying the film to the blasted surface then utilizes one end of a pen to perform rubbing activities on the clear portion of the test strip. This QA Inspector then observed Mr. Gonzales utilize a micrometer to measure the surface profile on the clear film part of the strip, in which the rubbing was performed.

WELDING INSPECTION REPORT

(Continued Page 3 of 3)

Mr. Gonzales explained to this QA Inspector that the initial setting on the micrometer was set at 2mils over, due to the thickness of the X-Coarse Press-O-Film paper. During observation, this QA Inspector observed that the readings appeared to be 3.1 mils, 3.2 mils, 2.8 mils, and 2.9 mils. This QA Inspector noted that the contract requires a surface profile of 1.57 mils, (40 um) - 3.15mils (80um) and that the above mentioned tested profile appears to be in compliance with the contract requirements. After surface profile testing, this QA Inspector then observed Mr. Gonzales perform a test for soluble salts on the previously blasted base metal areas. This QA Inspector observed the testing being performed at random areas which appeared to meet or exceed one test per 200 square meters, per the contract requirements. After testing, this QA Inspector observed that the soluble salt content appeared to be well below the max of 10 micrograms per square centimeter. After testing was completed RPI starting applying the Sherman Williams prime coat.

Summary of Conversations:

As noted within this report.

Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Nina Choy (510) 385-5910, who represents the Office of Structural Materials for your project.

Inspected By:	Brannon,Sherri	Quality Assurance Inspector
Reviewed By:	Lanz,Joe	QA Reviewer